



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

UNIVERSAL DIGITAL MULTISPEED LOAD FRAME WITH SOFTWARE



Universal Load Frame (Digital)-The Universal Load Frame is a system designed for carrying out 3 different tests mainly CBR test , Marshal stability test and unconfined compression test along with inbuilt programming and data acquisition of all the three tests. The different values of measurements like load , displacement can be digitally viewed on the same screen.

Compliance standard : ASTM D1833, ASTM D1559, ASTM D6927, ASTM D2850

Salient features

- Touch screen graphical display.
- Load and displacement on the same screen.
- Capacity : 50 KN
- Resolution : 0.001 KN
- Displacement capacity : 100 mm
- Displacement resolution : 0.01 mm
- **1 mm / min to 51 mm / min variable speed**
- User friendly, **the desired speed can be digitally pre-set as per the test requirement**
- No gears, no lever, no mechanical adjustments to change speed.
- Speed can be inserted from the controller
- Operated from 1 HP servo motor

Apparatus description

- Data acquisition software 3 in 1 EIE-Pro software.
- Direct analytical reports on PC software.
- Auto generation of load vs time graph.
- Auto calculation of CBR, Marshal and unconfined value.

- Capable to save graph for future reference.
- Data storage in excel file.
- Connection through RS-232 or RS-434 port.
- Two way communication to operate machine from computer.

Inbuilt programming for the following tests

- CBR test
- Marshal stability test
- Unconfined compression test
- Pre-decided speed rate per min/ triaxial test

Salient features of CBR test

- Speed 1.25, 1.5 and 2.5 mm / min.
- Auto store of load and flow value at 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 7.5, 10, 12.5 mm.
- Auto reverse after 12.5 mm or after pressing stop.
- Auto calculation of the CBR value at 2.5 mm and 5 mm.

Salient features in Marshal stability test

- Auto save of peak load and peak flow value.
- Auto reverse on the completion of the test.
- Auto reverse as and when machine is stopped.
- Speed 50.8 mm / min.

Salient features in unconfined compression test

- Speed 1.25, 1.5 and 2.5 mm / min.
- Auto store of load and flow value at time interval of 30 seconds.
- Auto reverse after 15 mm or after pressing stop.

Note

1. 3 KVA servo stabilizer is must to operate the machine, which can be supplied at extra cost.
2. **Accessories for CBR, Triaxial, Unconfined test and Marshal Test has to be purchased separately**

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